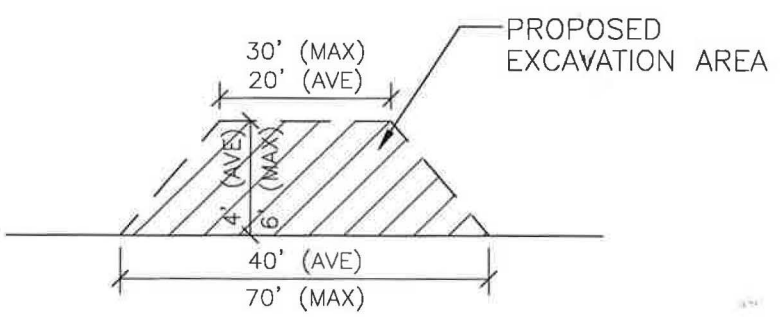
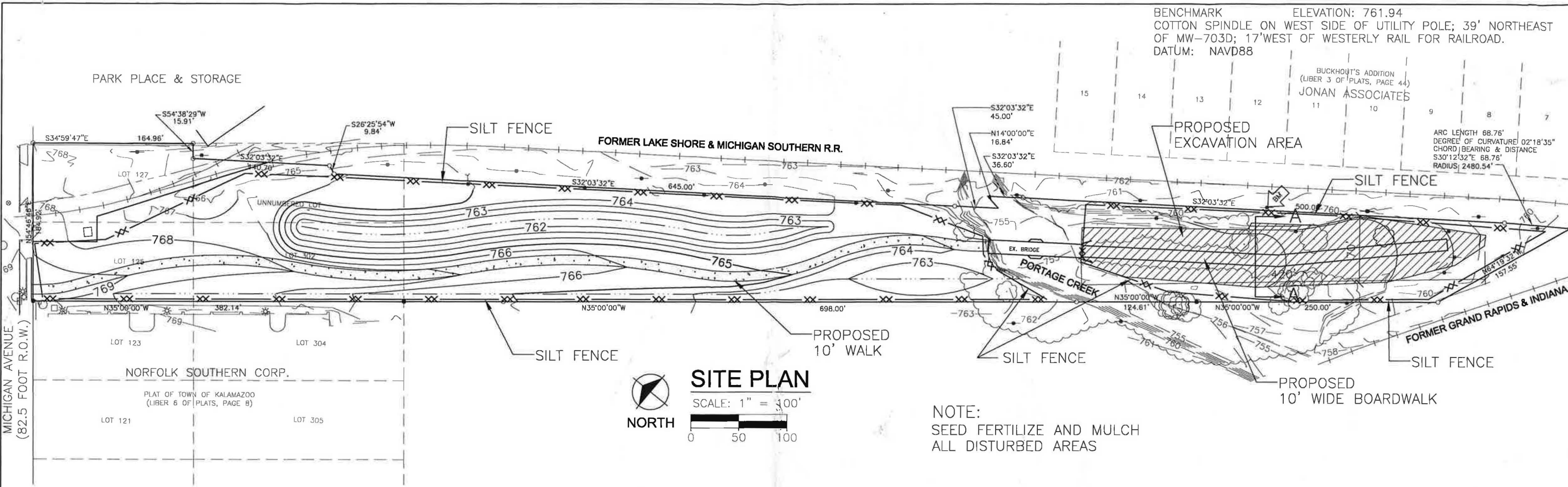


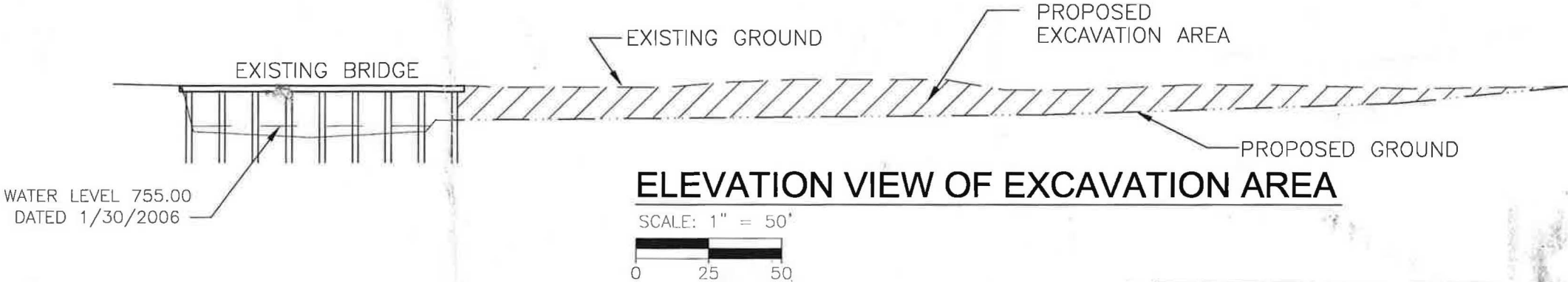
BENCHMARK ELEVATION: 761.94
COTTON SPINDLE ON WEST SIDE OF UTILITY POLE; 39' NORTHEAST
OF MW-703D; 17' WEST OF WESTERLY RAIL FOR RAILROAD.
DATUM: NAVD88

BUCKHOUT'S ADDITION
(LIBER 3 OF PLATS, PAGE 44)
JONAN ASSOCIATES

ARC LENGTH 68.76'
DEGREE OF CURVATURE 02°18'35"
CHORD BEARING & DISTANCE
S30°12'32"E 68.76'
RADIUS 2480.54'



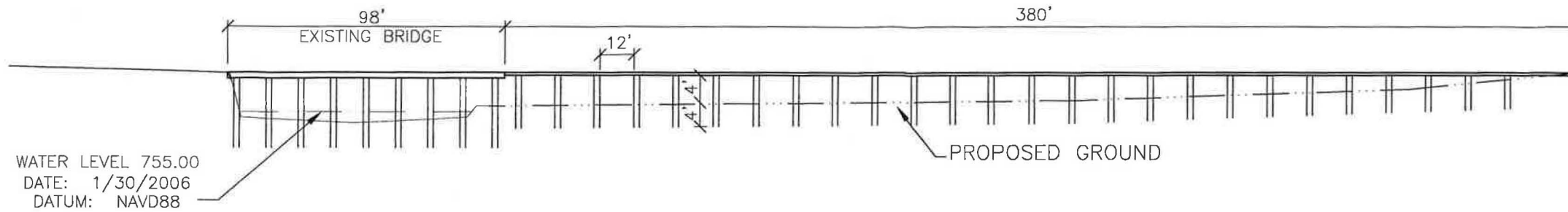
APPLICATION TO EXCAVATE APPROXIMATELY 2,074 CUBIC YARDS OF FILL MATERIAL FROM AN AREA 30' WIDE BY 6' DEEP BY 380' LONG. ALL EXCAVATED MATERIALS TO BE CHARACTERIZED AND DISPOSED OF OFF SITE AT AN APPROPRIATE FACILITY.



ELEVATION VIEW OF EXCAVATION AREA

PROPOSED FLOODPLAIN EXCAVATION

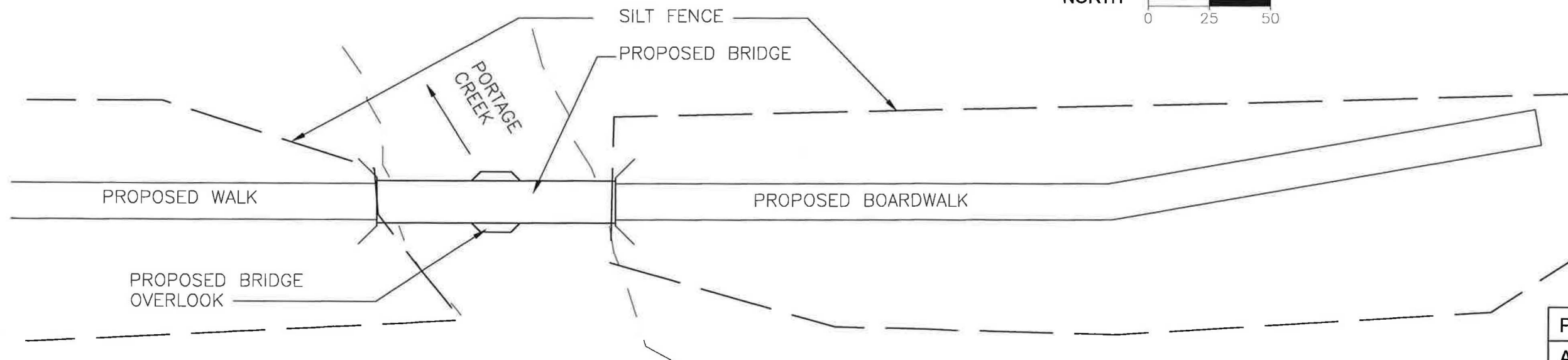
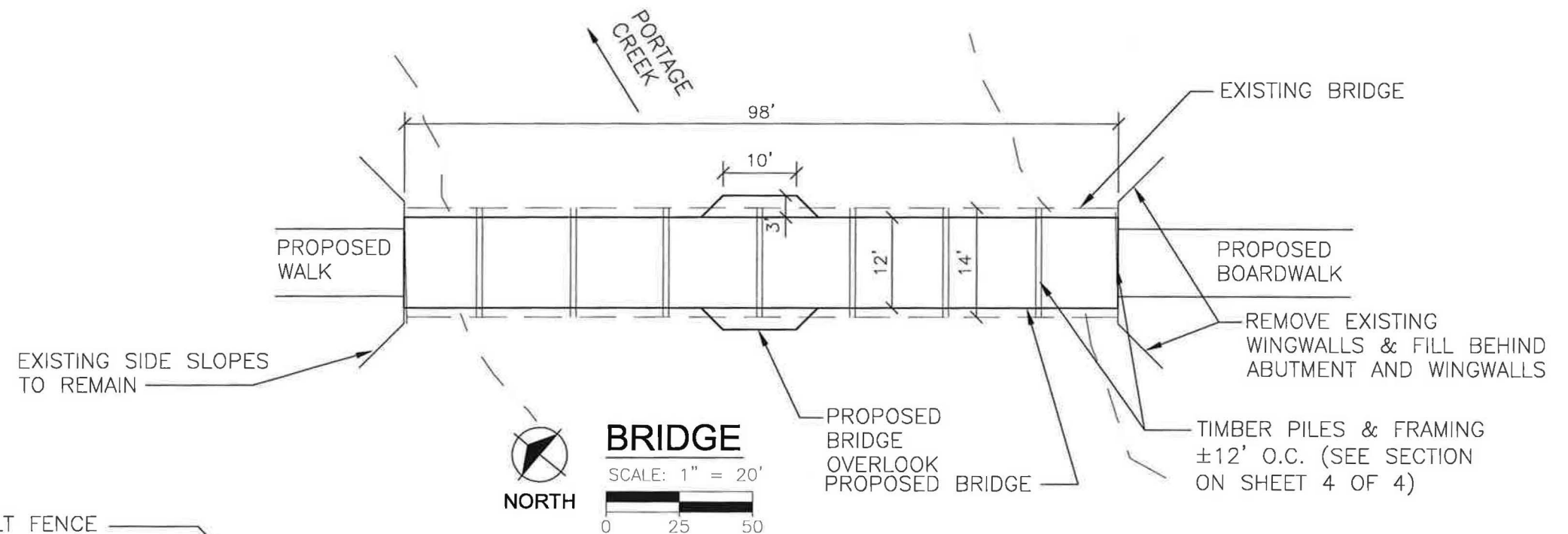
APPLICANT: NATURE VENTURES, L.L.C.
WATERWAY: PORTAGE CREEK
CITY/TOWNSHIP: CITY OF KALAMAZOO
COUNTY: KALAMAZOO COUNTY
NUMBER OF SHEETS: 2 OF 4
DATE: 2/15/2007



ELEVATION VIEW OF BRIDGE & BOARDWALK

SCALE: 1" = 50'

0 25 50



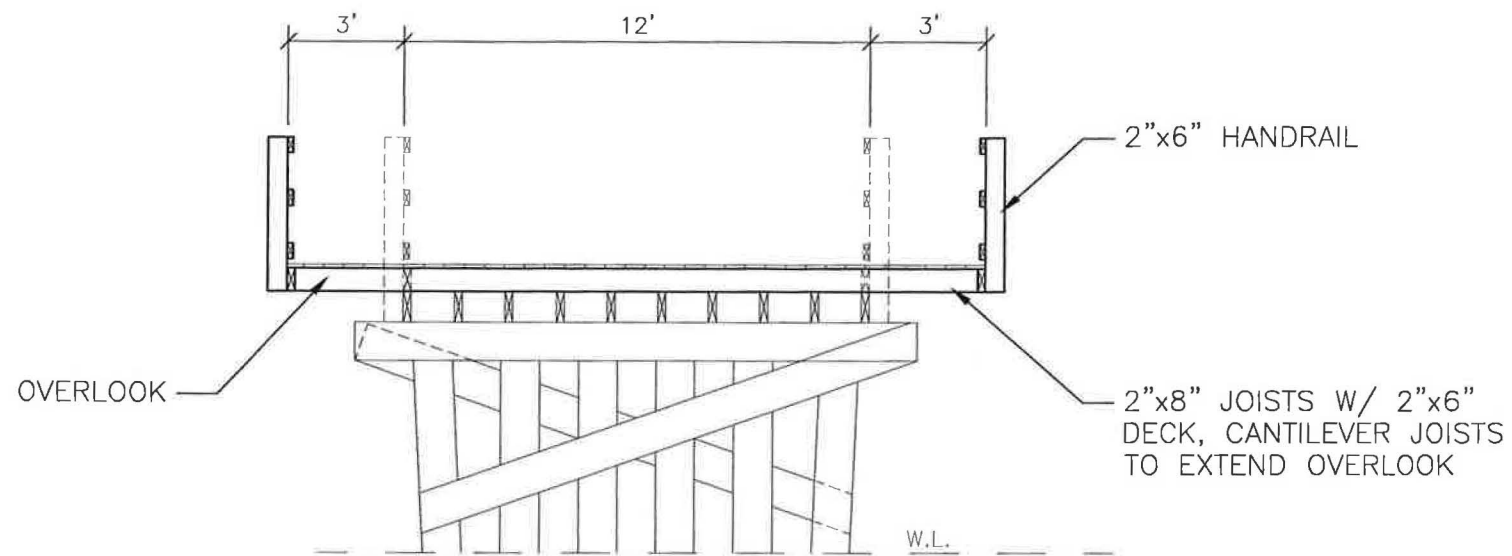
PLAN VIEW OF BOARDWALK

SCALE: 1" = 50'

0 25 50

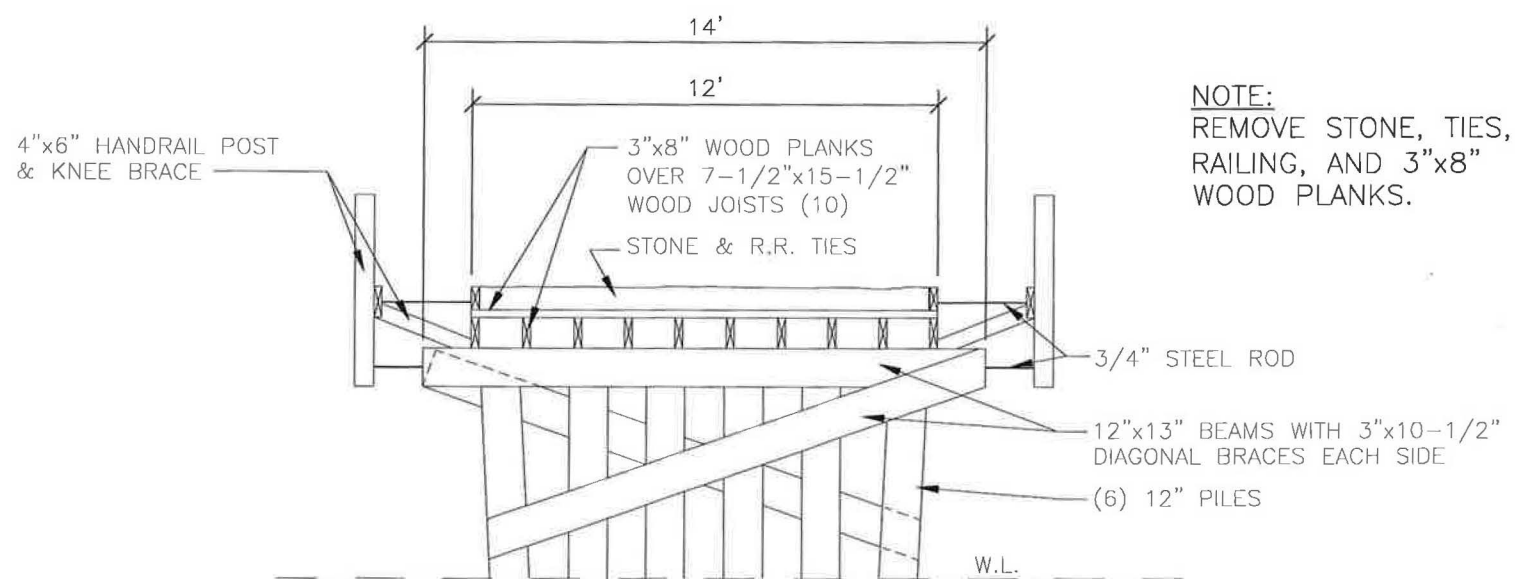
PROPOSED BRIDGE AND BOARDWALK

APPLICANT: NATURE VENTURES, L.L.C.
WATERWAY: PORTAGE CREEK
CITY/TOWNSHIP: CITY OF KALAMAZOO
COUNTY: KALAMAZOO COUNTY
NUMBER OF SHEETS: 3 OF 4
DATE: 2/15/2007



PROPOSED BRIDGE CROSS SECTION

SCALE: 1" = 50'

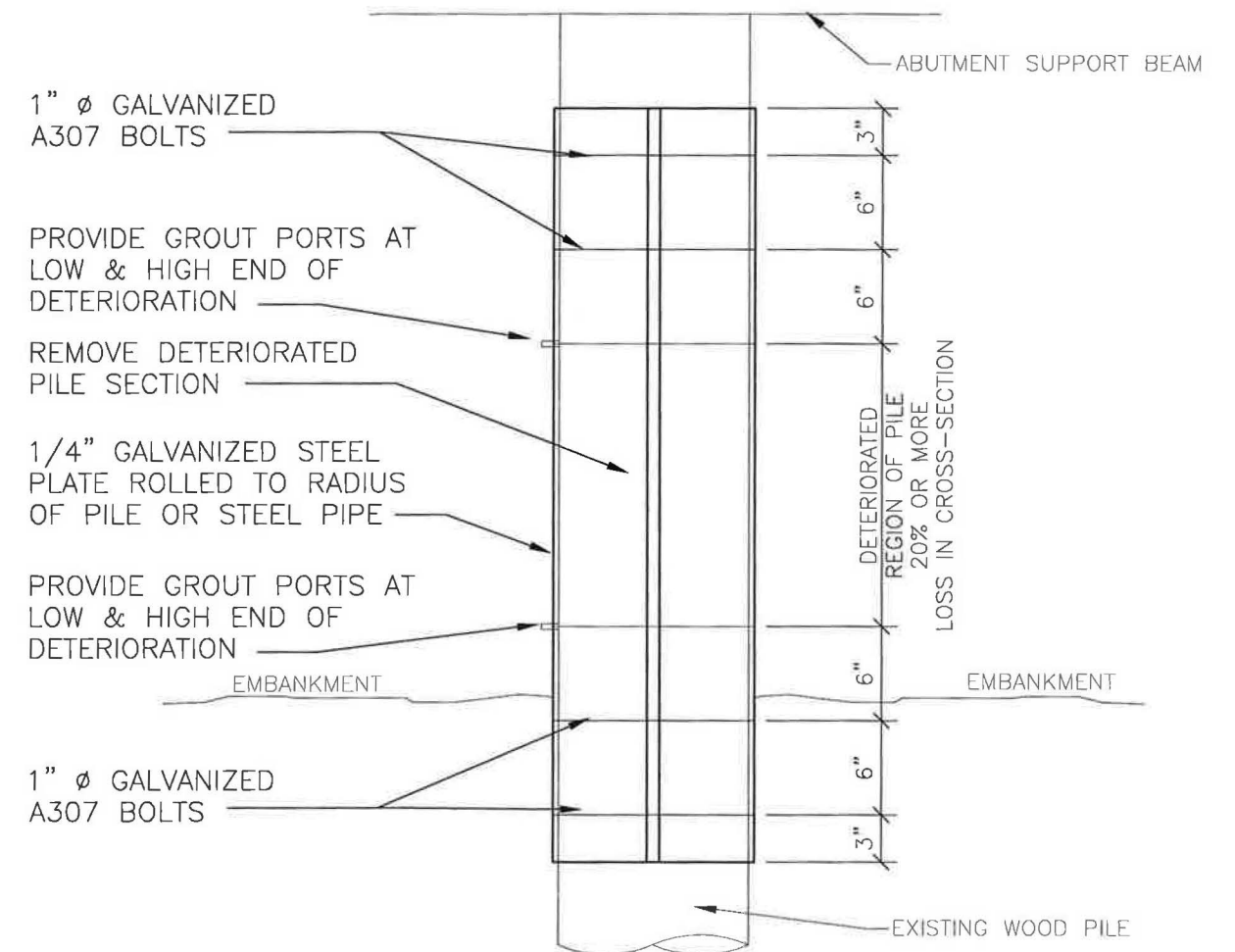


EXISTING BRIDGE CROSS SECTION

SCALE: 1" = 50'

NOTES:

1. SHORE UP ABUTMENT AS REQUIRED.
2. REMOVE DETERIORATED PILE CROSS-SECTION.
3. INSTALL SLEEVE.
4. GROUT VOID (AREA OF PREVIOUS DETERIORATION).
5. RESTORE EMBANKMENT.



ABUTMENT WOOD PILING REPAIR DETAIL

SCALE: 1" = 1'

PROPOSED BRIDGE DETAILS

APPLICANT: NATURE VENTURES, L.L.C.
 WATERWAY: PORTAGE CREEK
 CITY/TOWNSHIP: CITY OF KALAMAZOO
 COUNTY: KALAMAZOO COUNTY
 NUMBER OF SHEETS: 4 OF 4
 DATE: 2/15/2007